



Croatian Journal of Forest Engineering, Vol.29 No.1 Lipanj 2008. Početna stranica Abecedni popis časopisa Pretraživanje članaka Izvorni znanstveni članak Časopisi po područjima Soil Compaction on Forest Soils from Different Kinds of Tires and tracks and Possibility of Accurate Prirodne znanosti Estimate Tehničke znanosti traži Hideo Sakai; The University of Tokyo Graduate School of Agricultural and Life Sciences Biomedicina i zdravstvo Tomas Nordfjell; Swedish University of Agricultural Sciences Napredno pretraživanje Biotehničke znanosti Kjell Suadicani; University of Copenhagen Faculty of Life Sciences Društvene znanosti Bruce Talbot; University of Copenhagen Faculty of Life Sciences Upute za pretraživanje Humanističke znanosti Ebbe Bøllehuus; University of Copenhagen Faculty of Life Sciences Moj profil Puni tekst (Engleski) Str. 15 - 27 (pdf, 1.48 MB) downloads: 281 Uredništva Prijava novog časopisa Registracija novih korisnika Sažetak An 8-WD forwarder loaded with 9,520 kg of timber, and fitted with low or high tire pressures, or tires Korisnička oznaka (email) rounded with tracks, was repeatedly driven on soil for 1, 8 and 24 passes to investigate mechanistic influences on soil compaction. Soil compaction occurred during the early passes, and heavy compaction occurred after 8 passes. High pressure tires caused heavy compaction in the deeper soil Lozinka layer zones. The compacted zone for a loaded forwarder with tracks was shallow in depth and had the lowest degree of compaction. Linear regression between contact pressure and average depth of ruts after 24 passes was derived. An increase in contact pressure of 100 kPa caused a decrease of 5.7% in prijava soil porosity at 10–15 cm depth after 24 passes. Maximum increment of cone index of 85 kPa, which occurred at depths of 14 to 28 cm, meant a decrease of 1% soil porosity between depths of 10-15 cm. Zaboravili ste lozinku? Additionally, ruts of 10 cm in depth decreased porosity by 7%. Tracks kept original porosity with lowest compaction and should therefore be useful for preventing soil compaction. Ključne riječi ScientificCommons soil compaction; tracks; depth of ruts; porosity



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